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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/743,849	03/08/2001	Masao Komai	KOMAI-4	8746
1444	7590 07/01/2003			
	AND NEIMARK, P.L.I	L.C.	EXAMINER	
624 NINTH S SUITE 300	,		AHMED, SHEEBA	
WASHINGI	ON, DC 20001-5303		ART UNIT	PAPER NUMBER
			1773 DATE MAILED: 07/01/2003	13

Please find below and/or attached an Office communication concerning this application or proceeding.

				$H \mathcal{S}$			
		Application No.	Applicant(s)				
Office Action Summary		09/743,849	KOMAI ET AL.				
		Examiner	Art Unit				
		Sheeba Ahmed	1773				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence add	fress			
THE I - Exter after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thin will apply and will expire SIX (6) MON, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this cor BANDONED (35 U.S.C. § 133).	mmunication.			
1)	Responsive to communication(s) filed on 05.	<u>lune 2003</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
,—	Claim(s) <u>9-21</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5)	Claim(s) is/are allowed.						
6)	Claim(s) <u>9-21</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
<i>,</i> —	Claim(s) are subject to restriction and/o ion Papers	r election requirement.					
9)	The specification is objected to by the Examine	r.					
10) 🔲	The drawing(s) filed on is/are: a)☐ acce	pted or b) objected to by	the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) 🗌	The oath or declaration is objected to by the Ex	aminer.					
Priority (under 35 U.S.C. §§ 119 and 120						
13)⊠	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)	⊠ All b) Some * c) None of:						
	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document	s have been received in A	Application No				
* 5	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		Stage			
14) 🗌 <i>A</i>	Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C.	§ 119(e) (to a provisional	application).			
	 The translation of the foreign language pro Acknowledgment is made of a claim for domest 						
Attachmen							
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of	Summary (PTO-413) Paper No(s Informal Patent Application (PTC				
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 27, 2003 (Paper No. 11) has been entered. Claims 9-21 are now pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 9-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language of independent claim 9 is ambiguous. For example, Claim 9, lines 6 states that "the sheet is treated with an anodic treatment in acid solution, wherein the composite is the same as that in the plating bath or the composite includes...". It is unclear from the claims and the Specification what "the composite" is referring to in this case and what is meant by such a recitation. Should "the composite" be "the composition"? Similar ambiguities exist in independent claim 10.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 9-12 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Saitou et al. (US 5,032,236).

Saitou et al. disclose a process for producing a surface blackened steel sheet (corresponding to the resin coated steel sheet of the claimed invention) wherein a galvanized (i.e., Zn plated) steel sheet may be used to blacken the surface (Column 1, lines 7-10 and 42-52). The process entails using a plated steel sheet as a cathode in an acidic solution containing zinc ion, and at least one of iron, cobalt, or nickel ion amongst the other ions listed in Column 2, lines 57-68 (corresponding to the cathodic treatment in acid solution as recited in claims 9 and 10), and subsequently applying a chromate treatment, if required, and coating with a guard coat (Column 3, lines 1-5). The guard coat includes a resin film or a composite resin film. The resin film may be an olefin acrylic resin, urethane epoxy resin, acrylic ester resin, or a urethane resin (corresponding to the organic resin layer of the claimed invention and meeting the limitations of claim 11 and 12) (Column 7, lines 62-69). The composite polymer film may contain silica, TEFLON powder (which is polytetrafluoroethylene powder), (corresponding to the colloidal silica and lubricating agent of claim 10 and thus meeting the limitations of claim 15) and a silane coupling agent (thus meeting the

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limitations of claims 16 and 17) (Column 8, lines 14-16). Tables 1-3 show that the L-value in each case is less than 30 (*thus meeting the limitation that the blackened galvanized alloy steel sheet has an L-value of equal to less than 30*). The disclosed coated steel sheet has a distinguished appearance, improved workability and corrosion and scratch resistance and provides cost reduction during production (Column 3, lines 33-40). The determination of patentability for product claims containing process limitations is based on the product itself and not on the method of production. If the product is the same or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985) and also see MPEP 2113. In this case, the product (i.e., the resin coated steel sheet) is the same despite the process limitations of using an anodic treatment to coat the galvanized alloy layer. All limitations of claims 9-12 and 15-17 are disclosed in the above reference.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saitou et al. (US 5,032,236) in view of Smith et al. (US 6,136,941).

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Saitou et al. disclose a process for producing a surface blackened steel sheet (corresponding to the resin coated steel sheet of the claimed invention) wherein a galvanized (i.e., Zn plated) steel sheet may be used to blacken the surface using cathodic electrolysis (Column 1, lines 7-10 and 42-52). The process entails using a plated steel sheet as a cathode in an acidic solution containing zinc ion, and at least one of iron, cobalt, or nickel ion amongst the other ions listed in Column 2, lines 57-68 and subsequently applying a chromate treatment, if required, and coating with a guard coat (Column 3, lines 1-5). The guard coat includes a resin film or a composite resin film. The resin film may be an olefin acrylic resin, urethane epoxy resin, acrylic ester resin, or a urethane resin (Column 7, lines 62-69). The composite polymer film may contain silica, TEFLON powder (which is polytetrafluoroethylene powder) (Column 8, lines 14-16). Tables 1-3 show that the L-value in each case is less than 30.

Saitou et al. do not specifically disclose that their urethane resin has the claimed pencil hardness, tensile strength or extension ratio, i.e., elongation.

However, Smith et al. disclose an aqueous polyurethane dispersion having a higher modulus and that may be used to coat cold rolled steel plates and having the an elongation of 290%, a tensile strength of 5800 psi, and a pencil hardness of 1H (See Tables 1-7) (thus meeting the pencil hardness, tensile strength and extension ratio limitations of claims 13 and 14).

Accordingly, it would have been obvious to one having ordinary skill in the art to use a urethane resin having the claimed pencil hardness, tensile strength and extension

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ratio, i.e., elongation, in a resin coated steel sheet given that Smith et al. teach that such a resin has a higher modulus and is desirable in coating steel sheets.

5. Claims 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishizaka et al. (US 4,550,991) in view of Saitou et al. (US 5,032,236).

Ishizaka et al. teach that film cartridges are made of steel so that when a film cartridge is loaded into a film chamber it is attracted by the permanent magnets (Column 3, lines 51-55).

Ishizaka et al. do not teach that the steel film cartridge has the claimed galvanized alloy plating, blackened surface or a resin coating.

However, Saitou et al. disclose a process for producing a surface blackened steel sheet wherein a galvanized (i.e., Zn plated) steel sheet may be used to blacken the surface using cathodic electrolysis (Column 1, lines 7-10 and 42-52). The process entails using a plated steel sheet as a cathode in an acidic solution containing zinc ion, and at least one of iron, cobalt, or nickel ion amongst the other ions listed in Column 2, lines 57-68, and subsequently applying a chromate treatment, if required, and coating with a guard coat (Column 3, lines 1-5). The guard coat includes a resin film or a composite resin film. The resin film may be an olefin acrylic resin, urethane epoxy resin, acrylic ester resin, or a urethane resin (Column 7, lines 62-69). The composite polymer film may contain silica, TEFLON powder (which is polytetrafluoroethylene powder) (Column 8, lines 14-16). Tables 1-3 show that the L-value in each case is less than 30. The disclosed coated steel sheet has a distinguished appearance, improved workability

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and corrosion and scratch resistance and provides cost reduction during production (Column 3, lines 33-40).

Accordingly, it would have been obvious to one having ordinary skill in the art to replace the steel sheet used to make film cartridge taught by Ishizaka et al. with the steel sheet disclosed by Saitou given that Saitou et al. specifically teach that their steel sheet has a distinguished appearance, improved workability and corrosion and scratch resistance and provides cost reduction during production.

Response to Arguments

6. Applicants traverse the rejection of claims 9-12 and 15-17 under 35 U.S.C. 102(b) as being anticipated by Saitou et al. (US 5,032,236), the rejection of claims 13 and 14 under 35 U.S.C. 103(a) as being unpatentable over Saitou et al. (US 5,032,236) in view of Smith et al. (US 6,136,941) and the rejection of claims 18-21 under 35 U.S.C. 103(a) as being unpatentable over Ishizaka et al. (US 4,550,991) in view of Saitou et al. (US 5,032,236) and submit that the process for producing a surface blackened steel sheet of the claimed invention differs from the process disclosed in the applied prior art. However, the Examiner would like to remind the Applicants that claims 9-21 of the present invention are directed to a resin coated steel sheet and not a process for making a resin coated steel sheet. The resin coated steel sheet recited in independent claims 9 and 10 is the same as the resin coated steel sheet disclosed by Saitou et al. despite the fact that a different process may have been used by Saitou et al. to form the resin coated steel sheet. Hence the above rejections are maintained.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (703)305-0594. The examiner can normally be reached on Mondays and Thursdays from 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau can be reached on (703)308-2367. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-5408 for regular communications and (703)305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5665.

Sheeba Ahmed Sheeba Ahmed Art Unit 1773

June 30, 2003